

Claims

1. Process for examining the visual functions of the eye, which comprises determining with the help of test images the visual function of the eye, then inducing photostress by illuminating the eye with an intense light, and measuring the time needed for the recovery of the visual function before the illumination further comprising using periodically moving test images for the examination, and determining the visual function on the basis of detecting the phenomenon of optokinetic nystagmus.
2. Process for examining the visual functions of the eye, which comprises determining the visual function of the eye by measuring, photostress induced by illuminating the eye with an intense light, and measuring the time needed for the recovery of the visual function before the illumination further comprising using for the determination of the visual function then critical fusion frequency (CFF) before and after the photostress.
3. Apparatus according to the invention, which comprises a light source (1) suitable for illuminating a test image and inducing photostress, a test image that can be illuminated with the light source, an optical device projecting the light of the light source and/or the picture of the test image into the eye and a clock measuring the time of the examination, the apparatus further having a test unit (3) suitable for moving and changing test images and a measuring unit (6) electrically connected to the test unit (3), which

measuring unit (6) contains a nystagrometer (61) sensing the movement of the eye and a display unit (62) and time measuring unit (63) connected to it.

4. Apparatus as claimed in claim 3, **characterised by** that the test unit (3) is constructed as a rotatable mechanic device.

5. Apparatus as claimed in claim 3, **characterised by** that the test unit (3) is equipped with a screen displaying test images.

6. Apparatus as claimed in claim any of claims 3-5, **characterised by** that there is a replaceable filter (2) between the light source (1) and the test unit (3).

7. Apparatus for examining the visual functions of the eye, which contains a light source (1) suitable for inducing photostress, **characterised by** that it has a test unit (3) constructed as a light source vibrating with variable frequency.